

# Geometry 6-1 VIDEO NOTES

Name \_\_\_\_\_

## 6.1 Polygons

**Objectives:** To identify, name, describe polygons  
Use the sum of the measures of the interior angles of a quadrilateral

### VOCABULARY:

Polygon  
Sides of a polygon  
Vertex/Vertices of a polygon  
Convex polygon  
Concave polygon

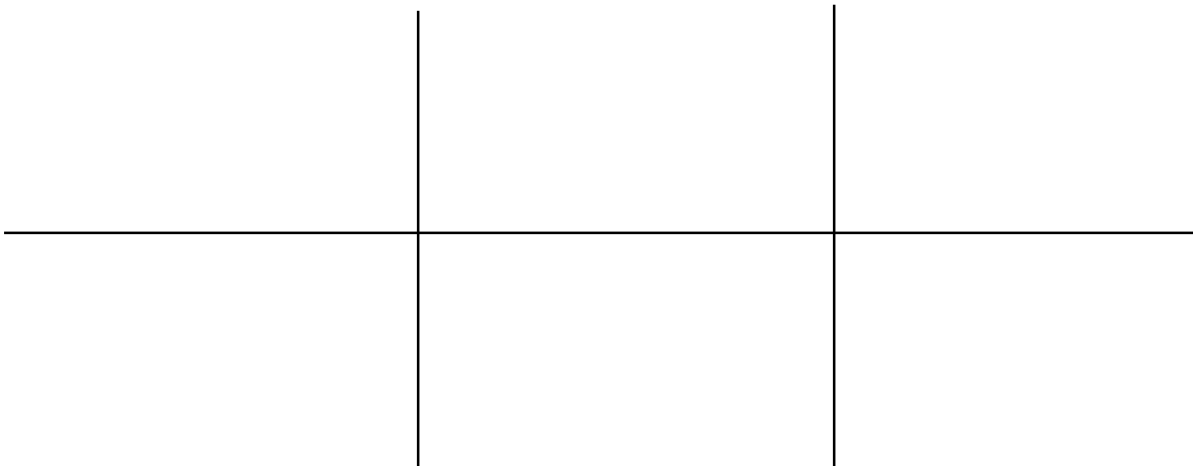
Equilateral polygon  
Equiangular polygon  
Regular polygon  
Diagonal of a polygon

PLEASE FOLLOW ALONG IN YOUR BOOK (pgs 322 - 325)

### Basic Rules for Polygons:

- 1.
- 2.
- 3.
- 4.

**Example 1:** Which of these are polygons?



**Special Names of Polygons**

# of sides	Name
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Convex Polygons	Concave Polygons
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Equiangular polygons - \_\_\_\_\_

Equilateral polygons - \_\_\_\_\_

Regular polygons - \_\_\_\_\_

**THEOREM 6.1**

In a quadrilateral, \_\_\_\_\_

\_\_\_\_\_

**Example 2:** Find the  $m\angle Q$  and the  $m\angle A$ .

The next problem is from the book (example 4 p. 324).

Please do the problem first, then check your answer on page 324.

**Example 3:** Find the  $m\angle Q$  and the  $m\angle R$ .

